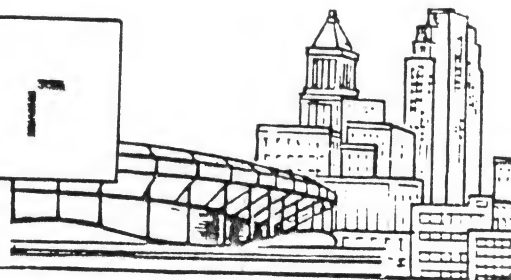


TIMEX sinclair

USERS GROUP OF CINCINNATI



Vol. 3 No. 2

March, 1985

NEXT MEETING:

April 28, 1985

May 19, 1985

June 23, 1985

July 28, 1985

All meetings are held at 2:00 PM
in room 506, Crosley Tower,
University of Cincinnati.

TREASURER'S REPORT

The group's funds are in a FSLIC
insured Savings and Loan and were
not affected by the governor's
actions.

Latest News From SUM:
(Sinclair Users Magazine)

Portugal is going to start
shipping a version of the 2068
called the SILVER AVENGER.

Not a lot of info at this time,
but they DID build a lot of units
for Timex.

This could be a very interesting
development!!!

Please submit all articles to:
Bill Bernard
6316 Firestone Dr.
Fairfield, OH 45014

MARCH NEWS from THE T/S CONNECTION

Fast and furious seems to be the
way things are going for Timex
Users as we enter our second year
of being Orphaned by the Timex
Computer Corp.

It is really hard to keep up with
all of the new things that are
becoming available to us, and to
try to sort out the goods from the
bads.

We have now received just about
everything from Little Rock, and
it really wasn't all that much.

A pretty fair stock of 1000 tapes
came in, at a price which enables
us to reduce our price for
existing inventory by almost 50%.

All Timex 1000 tapes are now:
\$6.00 a dozen
Come in and mix them up the way
you want.
If we ship them, it's our choice.
Individual tapes are \$1.00 each.

These prices apply to everything
except the ORGANIZER, (VU-FILE)
which is holding at \$5.00.

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OFFICERS:

Randy Gordon, President 581-6009
Rick Johnson, Secretary/
Treasurer 825-1449

T/S 1000 Computers.

Used, defective in some way!!
Guaranteed to not work!!!!
Most of these units have only a
minor problem, but Tim doesn't
have the time to check and repair
all of them.

Great for spare parts or internal
hacking.

Computer only, no manuals, cables,
or power supplies.

.....\$7.50

T/S 1500 Computers.

Same as above, except price.

.....\$25.00

(((((.....))))))

It would appear that TIMEX has now
severed all lines to the Computer
Department in Conn. and Ark.

A phone call will get a taped
answer to call The T/S Connection
for repairs or service.

Warranty service is still being
maintained in Little Rock, but we
hope to pick up that service also.

If you are not subscribing to, or
buying, The Computer Shopper, you
really should take a look at a
copy. The Timex/Sinclair survival
pages contain lots of information,
and the want ad pages always have
lots of T/S goodies for sale.

.....

Watch for ZX COMPUTING to hit the
News Stands soon. This mag is
from England, and has loads of
info that is great for T/S users.

TS HORIZONS continues to be one of
the BEST information sources for
TS NEWS. We need this kind of
information, and the best way to
keep it coming is to BUY, or sub-
scribe.

The latest issue has a review of
all Word Processors for the 2068.
Take a look, you might find one
that you like.

And, speaking of WP's, we are
still working on a comparison of
Tasword II and Mscript. It is
tough to do because of the many
fine features of each. But, we'll
get there one of these days.

.....

MODEM USERS!!!!

If you have been thinking about
Compuserve, we now have the packet
with 5 hours of FREE connect time
for only\$30.00

This price for club members only.

Non-member price is.....\$40.00

And, if you have Compuserve and
have been going CEM 450, you know
that Zipf-Davis has pulled the rug
again.

Go PCS 54, will access the Timex
sig, and everything is there the
same way it has been.

DRAW II, by Jon Roketenetz,
continues to be well accepted by
users across the country. If you
are interested in Graphics and
have an imaginative and creative
desire, DRAW II is for you.

In stock now.....\$24.95

Latest news from SIN.
(That's the Sinclair Information
Network)
Excerpt from 3/10/85 Newsletter

Sinclair has been talking about releasing the ZX Spectrum + into the US market. A few were actually brought in and lent to a few dealers for evaluation. However, Sinclair has rethought its original intentions, and now is *NOT* going through with the US introduction. Too bad about that, but hang in there.

(End of excerpt)

Well, I don't know what the above item tells us, except that we don't need to get all excited about having a Spectrum + anytime soon.

Just received a new supply of the Smart II Manual by Barry Carter.

If you have a 2068, a Modem, and Smart II software, this book is a MUST HAVE. It takes you by the hand and leads you through all of the features of Smart II in easy to understand language.

Includes newest updates....\$6.00

ATTENTION---ALL READERS

If you have ordered a 2068 Technical Manual from Little Rock, and have not received it, please contact us:

by phone, 513 271 5575,

by mail, 3832 Watterson Ave.

Cincinnati, Oh. 45227

by MCI, Jack Roberts MCI 230 8034

by BBS, Coconut 513 984 8705

or by Compuserve,

Jack Roberts, 75036, 136

Please include name, address, and check number.

We will run it down for you!!!!

If you are ready to buy one of the manuals, we have them in stock. And, we will ship, same day.

.....\$25.00

plus \$1.50 UPS.

The John Oliger Co. has a few items that may be useful to some of you HACKERS.

2068 User Cartridge Board

2068 Expansion Board

2068 Eprom Programmer

Upp Power Supply

2068 Parallel Printer Port

Call us for details.

If you are not on the Mailing list for the E. Arthur Brown Co. catalogue, give us a call and we will see that your name is added.

This Co. has a wide selection of products for the Timex User, and will have some good specials in the next mailing.

If you want something fast, and don't want to make a long distance call, call us at 271 5575, and we will order for you.

We are in touch every day.

The April issue of the Computer Shopper has a complex description and wiring diagram for controlling the power to the 2040 printer.

Our Power Saver Switch does the job better, is easier to install, and costs less than the parts that are described in the article.

We can furnish and install the Power Saver for about the same \$\$ as the parts would cost.

And, it has a LED, so that you can tell at a glance if your printer is turned on.

Switch.....\$7.50

Installed.....\$15.00

////////////////////////////////////

THE T/S CONNECTION
3832 Watterson Ave.
Cincinnati, Ohio 45227

SUBSCRIBE

TIMEX-SINCLAIR PUBLICATIONS

We have recently received several complimentary copies of Timex-Sinclair related publications. These are:

T-S Horizons

SUM

Time Designs

T-S Horizons has 32 pages and is published on a more or less monthly basis. You always receive twelve issues for your subscription price of only \$15.00. Although the page size is only 7x10, they are filled with information on hardware and software for both the TS-1000 and TS-2000 series of computers. All around a very nice magazine.

SUM (Sinclair/Timex Users Magazine) is a monthly publication and averages 12 pages per issue. It is only \$12.00 per year or a six month trial subscription for only \$6.00. It normally has hardware projects for either the TS-1000 or TS-2000 as well as software reviews. Again a very nice magazine.

Time Designs is a bi-monthly publication. The issue we received had 36 pages. The subscription price for one year (6 issues) is \$15.00. This magazine also has both hardware and software articles for both the TS-1000 and the TS-2068. Again a very fine magazine.

All three magazines are well worth their subscription price. We would be hard pressed to recommend one over the other. Subscribe to all three. If you can't afford all three, subscribe to at least one of them. They all have a substantial group of advertisers. Support the magazines and their advertisers.

SUBSCRIBE TO TIME DESIGNS MAGAZINE... ONE YEAR (SIX BIG ISSUES) FOR ONLY \$15.00. THAT IS A SAVINGS OF 50¢ OFF EACH ISSUE AT THE REGULAR NEWS-STAND PRICE.

Clip and mail this coupon (or a copy, if you do not wish to cut-up your magazine), along with a check or money order for \$15.00 to: TIME DESIGNS MAGAZINE, 29722 Hult Rd., Colton, OR, 97017. Your subscription will begin with the next current issue, unless you specify something different.

NAME: _____

ADDRESS: _____

CITY, STATE: _____

ZIP: _____



The Sinclair/Timex User's Magazine

Hardware Projects • Hardware Reviews
Software Reviews • Product Comparisons
Published Monthly • Back Issues Available
Free Personal Ads for Subscribers

SUM Magazine is aimed at Sinclair and Timex users who want to learn what is available for their computers, how to do things no one else is doing, and what is just over the horizon. Examples of recent articles include: Building your own Spectrum Emulator; an extensive series of reviews on word processors for the 2068; adding an RGB monitor to your 2068; and a series on repairing your TS1000 and ZX81 computers.

SUM Magazine invites articles, reviews, and projects for possible publication. We pay for articles published! Hardware and software producers are invited to submit their products for review.

Annual Subscription \$12
Free Sample Copy on Request

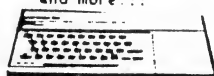
SUM Magazine
3224 NW 30 Avenue — Gainesville, Florida 32605

T-S Horizons

Each issue brings you 32 pages of usable information, program listings, product reviews, programming articles, hardware projects, and applications for your computer. T-S HORIZONS features nationally known authors like Paul Hunter, Gordon Young, and others. The price is ONLY \$15.00 for a full year (12 issues). AND for a limited time only, new subscribers will receive our special telecommunications issue (#7, see below) *FREE* with their subscription.



IN T-S HORIZONS #7 -
Byte Back Modem Review
2048 Programming Tips
How a Compiler Works
Telecommunications
for Beginners
Book & Game Reviews
Rotating Globe Routine
Articles By G. Young
and Paul Hunter
Sinclair Info. Network
TS-1000 Power Supply
-and more!!!



T-S HORIZONS

\$15 for 12 monthly issues. \$2.00 sample or back issues.

Enclose \$15 (US) for 12-issue subscription, plus *FREE* back issue (while supplies last).
\$21 Canada, \$25 other foreign.
Extra back issue/sample: \$2.00

NAME _____

ADDRESS _____

CITY _____

STATE, ZIP _____

SEND TO: T-S HORIZONS
2002 Summit St
PORTSMOUTH, OH 45662

Auto list Dialer

This program is derived from Randy Kuhn's MODEM control from BASIC. We modified the AUTO-DIAL portion of the code to make a phone list dialer that uses your modem as a dialing unit. This has nothing to do with sending MODEM tones or telecommunications, it just allows you to dial a name from the list of 100 phone numbers. Even though we did not use the AUTO-ANSWER portion of the code, we left it in for the more adventurous user to play with.

Use this program to keep a list of frequently dialed phone numbers that must be dialed as a group. For

```

1 GO TO 1145
2 REM AUTODIAL modified
3 for AUTO-DIAL
5 CLS : PRINT "AUTO-DIALER"
10 INPUT ##: PRINT : PRINT ##:
PRINT
15 OUT 119,31
20 FOR I:=1 TO LEN ##
30 LET A=VAL ##(I)
32 IF A=0 THEN LET A=10
35 PAUSE 25
40 GO SUB 60
50 NEXT I

```

```

55 GO TO 1150
60 FOR A=1 TO 2
70 FOR B=0 TO 4
80 OUT 119,8
90 PAUSE 0.5
100 NEXT B
110 OUT 119,1
120 OUT 119,2
130 NEXT A
140 RETURN
150 PRINT FLASH 1,"      PICK
UP PHONE NOW!
155 FOR X=1 TO 4: BEEP .1,25: N
EXT X
160 PAUSE 1000
170 OUT 119,0
180 RETURN
1000 REM AUTODIAL
1001 OUT 119,34
1005 OUT 119,0
1010 LET A=IN 119
1020 IF A=5 THEN GO TO 1010
1030 PAUSE 400
1040 LET A=IN 119
1045 IF A=5 THEN GO TO 1010
1050 PAUSE 400
1060 LET A=IN 119
1065 IF A=5 THEN GO TO 1010
1070 OUT 119,2
1080 OUT 119,34
1090 STOP
1100 REM AUTODIAL
1110 DIM N$(100,7): DIM B$(100,2)
1115 CLS : PRINT "INPUT name the
n INPUT number."
1120 FOR X=1 TO 100
1125 PRINT X); " "; INPUT B$(X);
PRINT B$(X); INPUT N$(X); PRIN
T N$(X); IF CODE B$(X)=32 THEN G
O TO 1145
1126 IF I$="C" THEN LET I$=""; P
AUSE 200: GO TO 1145
1127 NEXT X
1128 CLS : PRINT "LIST FULL". PA
USE 200: GO TO 1145
1130 STOP
1145 LET P=1
1147 ON ERR GO TO 3000
1150 CLS
1155 FOR Y=0+P TO 19+P: PRINT Y;
" ";B$(Y); NEXT Y: LET P=P+20: I
F P>100 THEN LET P=1
1160 PRINT "##=DIAL <ENTER>=PAGE
" "C"=CHANGE#": INPUT I$
1165 IF I$="" THEN GO TO 1150
1166 IF I$="C" THEN CLS: PRINT
"INPUT list # to CHANGE": INPUT
X: GO TO 1125
1170 LET A=N$(VAL I$): GO SUB 1
5
1180 GO TO 1145
2001 REM RANDY KUHN/AUTO-DIAL
AUTO-ANSWER FOR WESTAR 2050
Please note that the PAUSE times
are very important. Auto-answer
will answer in three rings. It
will not answer if picked up
1185
2002 REM RANDY GORDON (FLASHWARE)
AUTOPHONE LIST DIALER 2/12/85
3000 REM ERROR HAND
3001 ON ERR RESET
3005 CLS : PRINT "Your variable
list has not been initialized. R
UN 1100 to start entering list.
To save list to tape, type GOT
O 9997."
9000 STOP
9997 SAVE "AUTOPHONE" LINE 1145

```


MASS STORAGE FOR THE TS-2068

We have seen at least five mass storage devices for the TS-2068-SPECTRUM computers:

ZX-Microdrives
A&J Micro Drive
DAMCO/ROTRONICS WAFADRIIVE
AERCO 2068 DISC SYSTEM
RAMEX Millennia K interface

ZX-MICRODRIVE:

Price (includes interface) \$129.95
Additional Microdrive \$61.50
Cartridge \$3.00
Capacity 85K
Requires OMNI-EMU or similiar interface and a bus converter.

A&J MICRO DRIVE

Price \$199.50
Additional Micro Drive \$124.50
Micro Wafer \$4.75
Capacity 85K

DAMCO/ROTRONICS WAFADRIIVE

Price \$229.95
Wafer \$3.99
Capacity 128K
Includes RS232 and Centronics interfaces. Price includes OMNI-EMU interface.

AERCO 2068 DISC SYSTEM

Price \$397.00
Diskette \$2.00
Capacity 400K
This system was demoed recently at the Bay Area Users group.

RAMEX Millennia K interface

Price \$450.00
Diskette \$2.00
Capacity 800K
This appears to be the same as the SPDOS system offered by Watford Electronics in the U.K.

The following article is on the U.K. product SPDOS. This SPDOS would appear to be the same SPDOS offered by Ramex.

SPDOS

This article is a condensed and edited version of an article appearing in the January and February issues of SINCLAIR USER, U.K. version.

SPDOS from Watford Electronics has been released recently; it has the backing of a company which has made a name for itself by designing and selling interfaces for the BBC.

The interface will accept both 5 $\frac{1}{4}$ in and 3in drives in 40 or 80 track, single or double-side format. SPDOS can also accept old 35 track drives. Up to four drives can be used.

The most popular system is the 5 $\frac{1}{4}$ in and diskettes cost between \$2.00 and \$3.00 each. The amount of information they can hold will vary according to the drive used to record it. SPDOS divides each track into 10 sectors of 512 bytes per sector. A 40 track, single-side drive, allowing one track for the directory gives 195K.

The speed of a system depends on several things, including the speed of the drive. All disks spin at 300 rpm, five revolutions per second - but the time it takes to move from track to track will vary. SPDOS will work at a number of speeds, from 6ms to 30ms.

Another factor is the method of reading the sectors; SPDOS reads the sectors one after the other which should be faster than the practice of reading alternate sectors.

Powering up, or pressing the reset button automatically loads the operating system into memory. If a program has been saved with the name "AUTO", in upper case, then that will also be loaded. If the program is in BASIC and was saved using LINE then it will auto-run. CODE will auto-run from its first address.

The normal tape commands can be used in the usual way. To make them relate to the disk they must be preceded by PRINT #4: .

The commands that relate to the disk, which must also use PRINT #4: prefix, are: CAT, to obtain a catalog - this can be followed by a string so that only those files containing the string are listed; CLEAR which performs a block delete; ERASE to erase a file - this includes a wild-card facility where ^ can stand for any character; MOVE renames files or can be used to copy them.

SPDOS supports sequential files and a number of commands are used for that: OPEN # and CLOSE # are used to open and close files; PRINT # sends information while INPUT # and INKEY # are used to read it back. To use FORMAT the original system disk has to be in the current drive. That gives the disk its identifying name. Errors are returned as a Basic error message.

The system disk contains two other system utilities. The first of those is "copysys", a program which will copy the system, except for FORMAT to another disk - necessary if you want to use CAT on the other disk. The other program is "minidos", a stripped down version of the system which does not as far as is apparent, include the sequential access commands.

TASWORD II, MASTERFILE and OMNICALC 2 have been converted to use the system and include demonstration data.

The following test program was run to test the SAVE, LOAD and ERASE speed of SPDOS. The program SAVES 30 sets of CODE of 200 bytes each.

```
10 FOR n=1 TO 30
20 PRINT #4: SAVE ("test"+STR$n)
   CODE 32000,200
30 NEXT n
```

SPDOS took 58 seconds in saving, 23 loading and 29 erasing. Formatting depends on the number of tracks and sides; with an 80 track, single side disk SPDOS took 2 minutes 43 seconds.

SPDOS allows 144 directory entries per disk.

SPDOS with its overlays, sequential access and fast loading times is very technically advanced but uses a lot of memory.

If you only want to write your own programs then SPDOS may be the system for you.

Softwares Buyers Guide

Well, you say that with Timex out of business we will get no support for 2058 computer. So you think why not just put the old silver box in the closet, start saving the lunch money and maybe you'll get a PC Jr. or an Apple II c. Whoa, old keyboard breath the show is allong way from being lost. First, did you know, that there are at least thirty suppliers from which to buy and over 200 pieces of software costing from \$8.00 to \$99.00.

The following is a list of software that was collected from ads and compiled on UU-File. I have tried to keep the listing as complete and correct as I could.

The software list gives four pieces of information: name, type, maker, and list of suppliers with cost. The suppliers' addresses have been listed and an index was made. Each software was classified by type as shown below.

GAME	game program
HOME	for home use
EDUC	educational use
BUSS	business use
FINC	finance program
WORD	word processor
UTIL	utility program
DATA	data base use
SPSH	spread sheet
GRAPH	graphic program
TRNG	training program
COMM	communication

I did not have access to all the 200 programs nor manytimes a good description so, unfortunately, I guess on a few of them.

One word of caution, if you do order from this list, it would be best that you contact the supplier for the up-to-date price and to be sure that they are in business. I did not call or write to these suppliers. I would like to thank Rick Johnson for his help in gathering some of the programs. Also, it would be just as helpful for a list of programs for the 1000 to be published in the newsletter but I leave it for someone else to do.

P.S. If anyone would like a copy of the data for the UU-File I will have it at the next meeting.

Tom Burt

3D STRATEGY	GAME
3D STRATEGY-	GAME
3D-TANX	GAME
A. C. NETWORK ANALYSER	BUSS
A.C.Z. GENERAL LEDGER	BUSS
ABC LIFTOFF	EDUC
ACCOUNTS PAYABLE	BUSS
ACCOUNTS RECEIVABLE	BUSS
ACHIEVEMENT PROFILE	EDUC
ADDRESS BOOK	DATA
ADVANCED MATH	EDUC
AGEAN VOYAGE	EDUC
ALF IN THE COLOUR CAVE	EDUC
ALPHABET ZOO	EDUC
AMORTIZATION	FINC
ANDROIDS	GAME
ANDROIDS-	GAME
ANT ATTACK	GAME
APPOINTMENT CALENDER	BUSS
APPOINTMENT PLANNER	BUSS
APPOINTMENT/SCHEDULER	BUSS
AQUAPLANE	GAME
ARDENNES	GAME
ART FOR ALL AGES	EDUC
ART FOR KIDS	EDUC
ASSEMBLER&INTEGER COMPILER	UTIL
ASSEMBLER-TS2066	UTIL
ASTROBLASTER	GAME
AUTO ANALYZER	HOME
BACKGAMMON	GAME
BADGAMMON	GAME
BANK RAID	GAME
BASLOAD	UTIL
BATTLESHIP	GAME
BILLMASTER	BUSS
BIORYTHMS	EDUC
BLACKJACK	GAME
BLIND ALLEY	GAME
BOARD SHOW	EDUC
BRAIN STRAIN	GAME
BRITAIN INVASED	GAME
BUDGET MINDER	FINC
BUDGETER	HOME
BUDGETER-	FINC
BUGABOO	GAME
BUGABOO-	GAME
BUGBLASTER	GAME
BUSINESS BANK ACCOUNT	BUSS
CALORIE COUNTER	HOME
CAPITALIZATION	EDUC

CASH REGISTER	BUSS
CASINO 1	GAME
CASINO 1-	GAME
CHECK-S	FINC
CHECK-BOOK	FINC
CHECKBOOK MANAGER	FINC
CHECKING	FINC
CHEQUERED FLAG	GAME
CHESS	GAME
CHESS PLAYER	GAME
CHESS PLAYER-	GAME
CIRCUIT BOARD SCRAMBLE	GAME
CO-GO SURVEYING	BUSS
CODENAME MAT	GAME
COIN COLLECTOR	HOME
COMPASS (2 PROG. IN 1)	UTIL
CONVERSATIONAL FRENCH	EDUC
CONVERSATIONAL SPANISH	EDUC
COSMIC GORILLA	GAME
COSMIC GORILLA	GAME
COUNTABOUT	EDUC
COUNTABOUT	EDUC
CRA (3 PROG PACK)	BUSS
CRAZYBUGS	GAME
CRAZYBUGS-	GAME
CROSSFIRE	GAME
CROWN	GAME
CYBERZONE	GAME
CYBERZONE-	GAME
CYBIRD ASSAULT	GAME
DANCE FANTASY	GAME
DATA BASE MANAGER 64	BUSS
DEATHCHASE	GAME
DEVILS OF THE DEEP	GAME
DIGITAL CIRCUIT DESIGNER	BUSS
DISASSEMBLER	UTIL
DOCTOR PSYCHO	EDUC
DOMINOES	GAME
DRAGMASTER	GAME
DRAGONFIRE	GAME
DRAGONS BANE	GAME
DRAW POKER	GAME
EASY EDITOR	WORD
ELECTRIC COST ANALYZER	HOME
EPICA	GAME
EVEREST ASCENT	GAME
EXECUTIVE'S CALENDAR	BUSS
FALL OF THE THIRD REICH	GAME
FIG-FORTH	UTIL
FIGARO DATA BASE	DATA
FIGHTER PILOT	GAME
FINANCE PLANNER	FINC
FINANCIL RECORD	FINC
FISHING WITH NUMBERS	EDUC
FLAGS I&II	EDUC
FLASH SPELLING	EDUC
FLEET STRATEGY	GAME
FLEXICALC	SPSH
FLEXICON/FLEXIGEN	BUSS
FLIGHT SIMULATOR	TRNG
FLIGHT SIMULATOR-	TRNG
FOOTBALL	GAME
FRACTION FEVER	EDUC
FRACTION FUN	EDUC
FRACTION ZAP	EDUC
FRED	GAME
FRENZY	GAME
FROGGER	GAME
FULL THROTTLE	GAME
FUN & GAMES	GAME
FUN GOLF	GAME
G-LEDGER	BUSS
GALLERY GRAPHICS	GRAPH
GAME BAG FOR KIDS	GAME

GAME OF NIM	GAME	MULTIPLICATION TABLES	EDUC
GAMES DESIGNER	UTIL	MUSICOLA	EDUC
GAMES '84	GAME	MYSTERY MANOR	GAME
GATECRASHER	GAME	NUMBER TUMBLERS	EDUC
GENERAL LEDGER	BUSS	NURSERY SONGS	EDUC
GENERALA	GAME	ONE-ARM BANDIT	GAME
GHOST TOWN	GAME	OPERATION PHEONIX	GAME
GOLD\$	GAME	OUR EARTH INSIDE & OUT	EDUC
GRAFIST	GRPH	OUR SOLAR SYSTEM	EDUC
GRAPHICS TOOLKIT	GRPH	PARADISE PARK	GAME
GREAT GRAPHICS SHOW	GRPH	PAYOFF	FINC
GRID RUNNER	GAME	PAYOFF 2000	FINC
GUARDIAN	GAME	PAYROLL	BUSS
GUITAR FOR BEGINNERS	EDUC	PAYROLL	BUSS
GULPMAN	GAME	PAYROLL	BUSS
GULPMAN-	GAME	PENETRATOR	GAME
HAUNTED HEDGES	GAME	PENTOMINOES	GAME
HEATING SYSTEM ANALYZER	HOME	PERSONAL ACCOUNTANT	FINC
HIGHSCHOOL FRENCH	EDUC	PERSONAL ACCOUNTANT-	GAME
HIGHSCHOOL MATH	EDUC	PERSONAL HOME FINC	FINC
HOME FINANCE MANAGER	FINC	PERSONAL PORTFOLIO	FINC
HOME IMPROVEMENT	HOME	PERSONALITY PROFILE	EDUC
HORACE AND THE SPIDERS	GAME	PHEONIX	GAME
HORACE GOES SKIING	GAME	PHYSICAL FITNESS ANALYSIS	HOME
HOT 2 II	UTIL	PINBALL	GAME
HOT DOT SPOTTER	EDUC	PINBALL	GAME
HUNGRY HORACE	GAME	POLYNOMIALS	EDUC
I.Q. TEST	EDUC	PRIMARY ARITHMETIC	EDUC
INSIDE-OUTSIDE EARTH	EDUC	PRO/FILE	DATA
INTERM. ENGLISH 1	EDUC	PROGRAM CONVERTER	UTIL
INTERM. ENGLISH 2	EDUC	PURCHASE LEDGER	BUSS
INTERM. MATHEMATICS 1	EDUC	QUADRA CHART	SPSH
INTERM. MATHEMATICS 2	EDUC	QUETZALCOATL	GAME
INVENTORY	BUSS	RANCH	EDUC
INVINCIBLE ISLAND	GAME	RAPID FIRE	GAME
INVOICE CONTROL	BUSS	ROBBER	GAME
INVOICE CONTROL 2	BUSS	ROBOT RUNNER	EDUC
KIDS ON KEYS	EDUC	SALES FILE	BUSS
KINDER COMP	EDUC	SALES LEDGER	BUSS
KOOL-AID	EDUC	SAUCER STRIKE	GAME
LANGUAGE USAGE	EDUC	SAVE MR. BILL	EDUC
LASERZONE	GAME	SCAM (5 IN 1 PROG)	BUSS
LDISAM	UTIL	SCREEN CALC	SPSH
LIFE LINE	EDUC	SHIP OF THE LINE	GAME
LITTLE BLACK BOOK	BUSS	SINCBASIC 2000	UTIL
LOGIC LEVELS	EDUC	SLOT MACHINE	GAME
LOST	GAME	SMART 2	COMM
LOST ISLAND	GAME	SMUGGLER'S COVE	GAME
LUNA CRABS	GAME	SMUGGLER'S COVE-	GAME
M-SCRIPT	WORD	SNOWMAN	GAME
MAH JUNG	GAME	SOLAR SYSTEM	EDUC
MAILING LIST	BUSS	SOLAR WATER HEATER DESIGN	HOME
MAILING LIST	DATA	SPACE GUNNER	GAME
MAKE A FACE	EDUC	SPACE INTRUDERS	GAME
MAKING CHANGE	EDUC	SPAWN OF EVIL	GAME
MATCH MAKER	GAME	SPELLER BEE	EDUC
MATH QUIZ	EDUC	SPELLING 1	EDUC
MATH TOOLKIT	UTIL	SPELLING 2	EDUC
MATH WIZARDRY 1	EDUC	STAMP COLLECTOR	HOME
MATH WIZARDRY 2	EDUC	STAR CLASH	GAME
METEOR STORM	GAME	STAR SHIP	GAME
MINED-OUT	GAME	STARFIRE	GAME
MINEOUT-	GAME	STATE CAPITALS	EDUC
MONTE CARLO	GAME	STATES & CAPITALS	EDUC
MOONSWEEPER	GAME	STATES & CAPITALS-	EDUC
MOONSWEEPER	GAME	STOCKMARKET SIMULATION	FINC
MOTHERSHIP	GAME	SUB ATTACK	GAME
MOUSE TRAP	GAME	SUB HUNT	GAME
MR. CLOCK	EDUC	SUM CRUNCHERS	EDUC
MTOS	UTIL	SUPER SPY	GAME
MULTI-DRAW	GRPH		

[illegible]

UP & ATOM	EDUC
UP-LOAD 2000	UTIL
URBAN UPSTART	GAME
UTILITY 1 (SORT SEARCH)	UTIL
UTILITY 2 (DEF GRAPHIC)	UTIL
UTILITY 3 (64 COLUMN)	UTIL
VELNORS LAIR	GAME
VOICE CHESS	GAME
VOICE CHESS-	GAME
VU-3D	GRAPH
VU-CALC	SPSH
VU-FILE	DATA
WAR IN THE EAST	GAME
WILD WORDS	EDUC
WORD ARCADE	EDUC
WORD CROSS	EDUC
WORD PLAY 1	EDUC
WORD PLAY 2	EDUC
WORD SINC 2.3 WORDPROCESSOR	WORD
WORD-MOST	WORD
WORDPROCESSER & FILE	WORD
WORDS TO KNOW	EDUC
WORLD CAPITALS	EDUC
WP32	WORD
WP64	WORD
XADOM	GAME
XADOM-	GAME
YARTZEE	GAME
ZAPAMOLEY	GAME
ZEUS ASSEMBLER	UTIL
ZEUS ASSEMBLER-	UTIL
ZEUS MONITOR/DISASSEMBLER	UTI

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